

LISTING OF THE CLAIMS:

A complete listing of the claims is provided below. This listing of claims will replace all prior versions and listings of claims in the application.

What is claimed is:

1. (Previously Presented) A steam generator comprising:
 - a housing;
 - a substantially rigid, generally tubular vessel located within the housing;
 - a heating element located within the tubular vessel;
 - a water inlet configured to allow water to enter the tubular vessel; and
 - a steam outlet configured to outlet steam from the tubular vessel and housing.
2. (Previously Presented) A steam generator comprising:
 - a housing;
 - a tubular vessel located within the housing;
 - a heating element located within the tubular vessel;
 - a water inlet configured to allow water to enter the tubular vessel;
 - a steam outlet configured to outlet steam from the tubular vessel and housing; and
 - a flange on one end of the tubular vessel configured to receive fasteners for attaching the tubular vessel to the housing.
3. (Previously Presented) The steam generator of claim 2, further comprising a silicone O-ring seal configured to seal the flange to the housing.
4. (Original) The steam generator of claim 1, further comprising a valve configured to regulate an amount of water applied to the water inlet wherein the valve is located outside the housing.

5. (Previously Presented) The steam generator of claim 1, further comprising a thermostat configured to monitor a temperature associated with the heating element and further configured to turn off the heating element when the heating element reaches a predetermined temperature.

6. (Original) The steam generator of claim 5, wherein the predetermined temperature is slightly above the boiling point of water.

7. (Previously Presented) A steam generator comprising:
a housing;
a tubular vessel located within the housing;
a heating element located within the tubular vessel;
a water inlet configured to allow water to enter the tubular vessel;
a steam outlet configured to outlet steam from the tubular vessel and housing; and
a thermostat configured to monitor a temperature associated with the heating element and further configured to turn off the heating element when the heating element reaches a predetermined temperature, wherein the thermostat automatically turns back on the heating element when the temperature associated with the heating element goes below a predetermined temperature.

8. (Original) The steam generator of claim 5, wherein the thermostat senses the temperature associated with the heating element at a top portion of the heating element.

9. (Original) The steam generator of claim 1, further comprising piping configured to deliver water to the water inlet and a drain valve located at a low point in the piping configured to selectively permit the piping to be drained.

10. (Previously Presented) The steam generator of claim 1, further comprising an overflow pipe configured to drain at least one of water and steam from the tubular vessel when a pressure in the tubular vessel exceeds a predetermined limit.

11. (Previously presented) A steam generator comprising:
 - a housing;
 - a tubular vessel located within the housing;
 - a heating element located within the tubular vessel;
 - a water inlet configured to allow water to enter the tubular vessel;
 - a steam outlet configured to outlet steam from the tubular vessel and housing;
 - an overflow pipe configured to drain at least one of water and steam from the tubular vessel when a pressure in the tubular vessel exceeds a predetermined limit; and
 - a pressure sensor and a valve configured to sense a pressure within the tubular member and open the valve to provide fluid communication between an interior of the tubular member and an area outside the housing when the pressure exceeds the predetermined limit.
12. (Previously presented) A steam generator comprising:
 - a housing;
 - a tubular vessel located within the housing;
 - a heating element located within the tubular vessel;
 - a water inlet configured to allow water to enter the tubular vessel;
 - a steam outlet configured to outlet steam from the tubular vessel and housing; and
 - an overflow pipe configured to drain at least one of water and steam from the tubular vessel when a pressure in the tubular vessel exceeds a predetermined limit, wherein the overflow pipe provides fluid communication between an interior of the tubular vessel and a reservoir located outside the housing.
13. (Previously presented) A steam generator comprising:
 - a housing;
 - a tubular vessel located within the housing;
 - a heating element located within the tubular vessel;

a water inlet configured to allow water to enter the tubular vessel;
a steam outlet configured to outlet steam from the tubular vessel and housing; and
a variable mounting bracket configured to attach to the housing at any two of a bottom, side, end, and top portion of the housing and further configured to attach to a mounting surface for mounting the steam generator.

14. (Previously presented) A steam generator comprising:

a housing;
a tubular vessel located within the housing;
a heating element located within the tubular vessel;
a water inlet configured to allow water to enter the tubular vessel; and
a steam outlet configured to outlet steam from the tubular vessel and housing, wherein the steam generator is located within a test chamber and configured to humidify the test chamber.

15. (Previously Presented) A steam generator comprising:

a housing;
a tubular vessel located within the housing;
a heating element located within the tubular vessel;
a water inlet configured to allow water to enter the tubular vessel;
a steam outlet configured to outlet steam from the tubular vessel and housing;
a reservoir external to the housing, but in fluid communication to the tubular vessel via the inlet by piping extending through the housing and connected to the inlet; and
a float valve configured to regulate an amount of water coming into the reservoir.

16. (Original) The steam generator of claim 15, wherein the reservoir and tubular vessel are located with respect to each other to cause a water level both the reservoir and tubular to equalize with each other.

17. (Previously Presented) The steam generator of claim 1, further comprising a water level control device configured to inlet more water to the tubular vessel when a water level in an external reservoir falls below a minimum level.

18. (Previously Presented) A steam generator comprising:

- a housing;
- a steam chamber located within the housing;
- a heating element located within the steam chamber;
- a water inlet configured to allow water to enter the steam chamber;
- a steam outlet configured to outlet steam from the steam chamber and housing;
- a vessel located external to the steam chamber having an interior reservoir in fluid communication with the steam chamber such that a liquid level in the reservoir and a liquid level in the steam chamber will seek to achieve substantially the same level; and
- a valve associated with the vessel configured to regulate a liquid flow from an external source into the reservoir to achieve a desired liquid level in the reservoir.

19. (Previously Presented) A steam generator comprising:

- substantially rigid, generally tubular means for containing a fluid;
 - means for converting contained water to steam located in the containing means;
 - means for inletting water into the containing means;
 - means for outletting a fluid from the containing means located on the containing means;
- and
- means for storing water, at a level approximately equal to a level of water in the containing means located outside the containing means in fluid communication with the containing means.

20. (Canceled)

21. (Previously Presented) A method of generating steam comprising the steps of:
- providing a substantially rigid, generally tubular chamber configured to contain a fluid;
 - inletting water into the chamber from a reservoir external from the chamber;
 - controlling an amount of water let into the reservoir;
 - substantially equalizing a water level in the reservoir with a water level in the chamber;
 - heating the water in the chamber to turn at least some of the water into steam; and
 - venting at least some of the steam out of the chamber.

22. (Canceled)

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